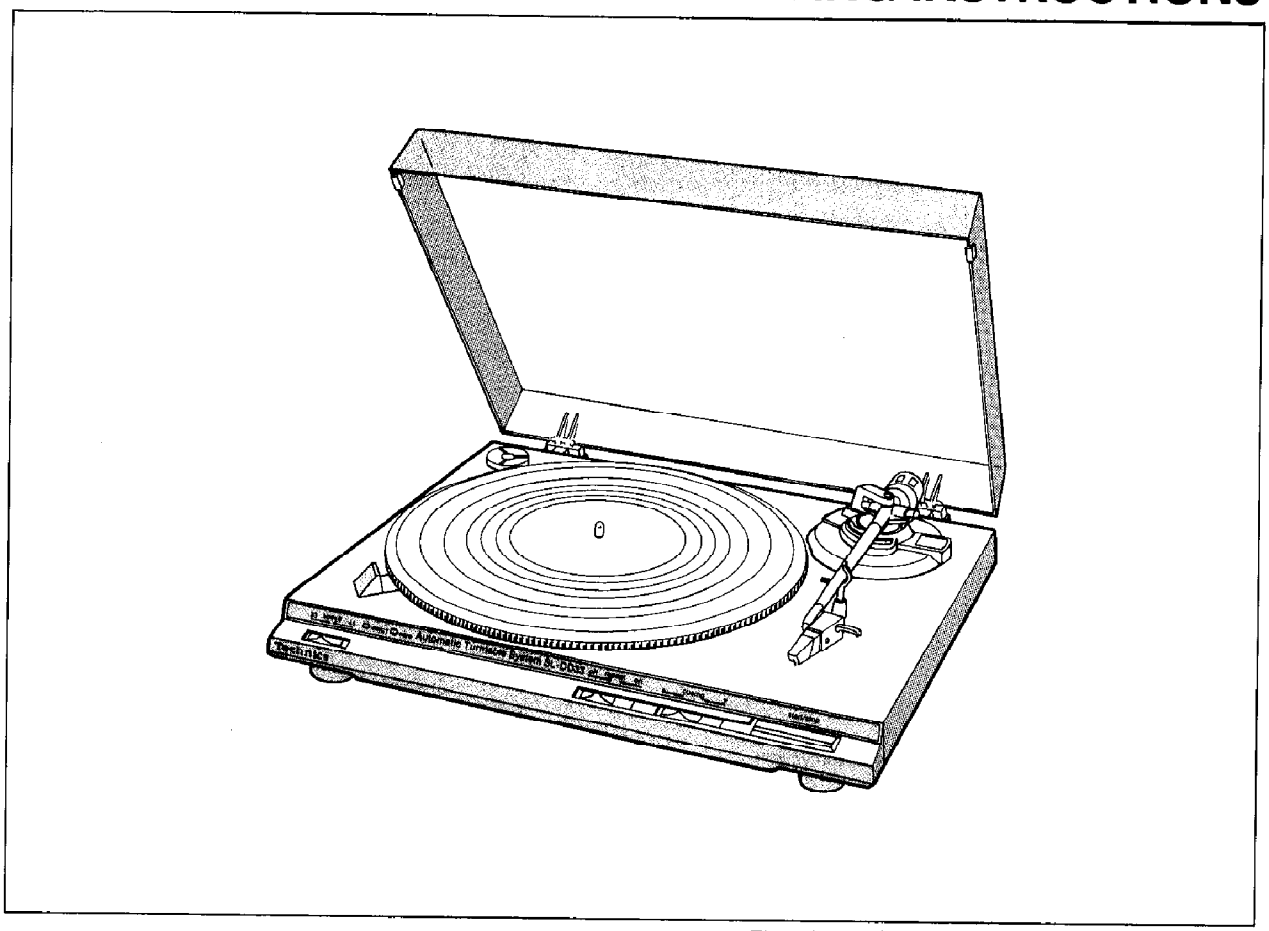
1102

Technics

DIRECT DRIVE
Automatic Turntable System

SL-DD33

OPERATING INSTRUCTIONS



These instructions also apply to units of different color.

Notes:
- Specifications differ according to the area code.
- The "EK" area code, for example, indicates United Kingdom specifications.
- The "EK" indication is shown on the packing case and serial number tag.

Before operating this unit, please read these instructions completely.

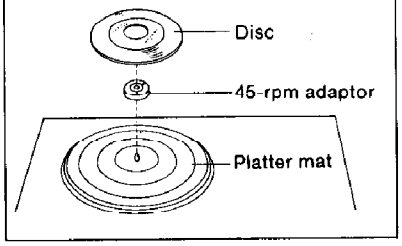
Operation

Notes: The unit is in the "stand-by" condition when the AC power supply cord is connected.
The primary circuit is always "live" as long as the power cord is connected to an electrical outlet.

Automatic play

1 Place a disc on the platter mat.

For a 17-cm (7") (large center hole) disc

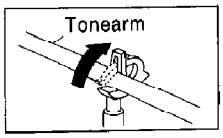


2 Speed selector (speed)

Set to disc's speed.

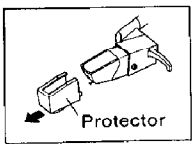
3 Arm clamp

Remove the arm clamp.



4 Remove the stylus protector.

(The tape on side of cartridge prevents the stylus assembly from shaking loose during shipment.)

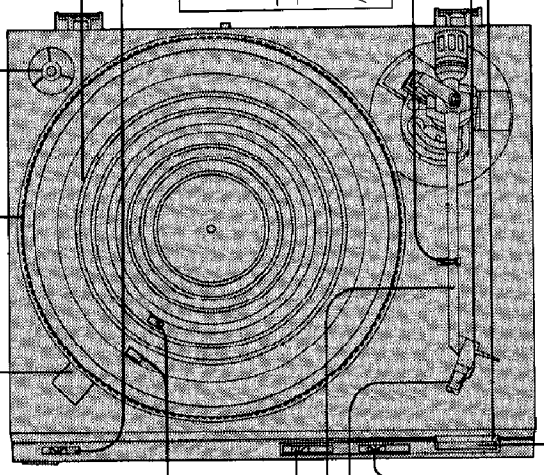


5 Start/stop switch (start/stop)

Press.
(The platter will start turning, then play will start.)
(The tonearm won't move if there is no disc on the platter mat.)

■ When play ends

1. The tonearm will automatically return to the arm rest (the automatic return feature).
2. Rotation will stop.



45-rpm adaptor

Strobe lines
When the platter rotates, the strobe lines form a stripe pattern according to the rotation speed.

Strobe-illuminator/ pilot lamp

Record size detector
Detects the size of the record on the platter automatically.

Repeat switch (repeat)
Set to the on position to repeat the play. To stop repeat play, set to the off position.

Press to stop the play.

Cueing control (cueing)
Set to "▽" to stop the play temporarily.
Set to "▽" to resume the play.

Cartridge
[4P] is the standard mark for the "P-mount" plug-in-connector system. Products carrying this mark are interchangeable and compatible with each other.

Tonearm

Manual play

The following types of discs should be played manually.
- Discs other than 17- or 30-cm discs
- Lightweight discs such as "Sonosheets"
- Badly warped discs

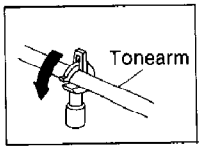
1. Follow the steps 1~4 of the automatic play.
2. Set the cueing control to the "▽" position.
3. Move the tonearm to the desired position by hand.
   (The platter will start turning.)
4. Set the cueing control to the "▽" position.
   (Play will start.)

Notes

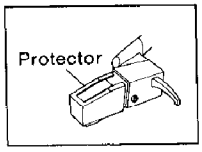
1. While the tonearm is moving, don't touch the repeat switch or the tonearm.
2. The platter may start turning or keep turning in some cases like those listed below. Press the start/stop switch to make the platter stop.
   - When the power cord is connected.
   - If the start/stop switch is pressed when there is no disc on the platter mat.

After use

1. Clamp the tonearm.



2. Attach the stylus protector.

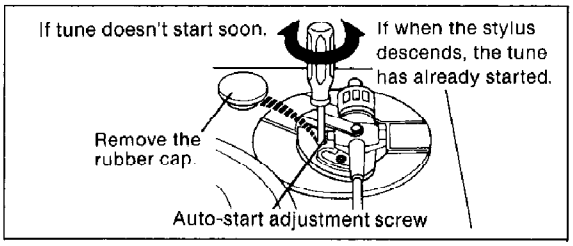


Adjustment

Adjustment of the automatic-start position

This adjustment is preset at the factory. If play starts from the middle of a tune, or the stylus descends outside the disc circumference, make the necessary adjustment.

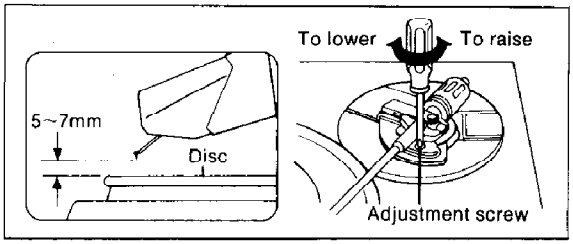
1. Adjust to the desired automatic-start position.
2. Check to be sure the automatic-start position is correct.


If tune doesn't start soon.
If when the stylus descends, the tune has already started.
Remove the rubber cap.
Auto-start adjustment screw

Adjustment of the stylus-to-disc clearance

This adjustment is preset at the factory. This adjustment should not be necessary unless the cartridge or stylus is changed.

1. Set the cueing control to "▽".
2. Move the tonearm to a position above the disc.
3. Adjust the stylus tip positon.

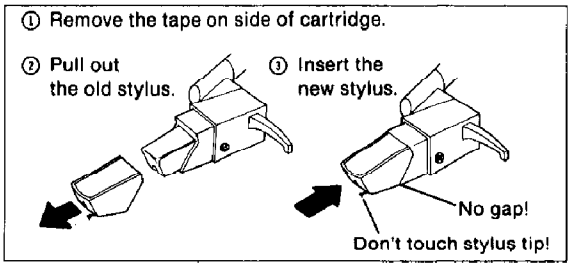


Replacement

Replacement of the stylus

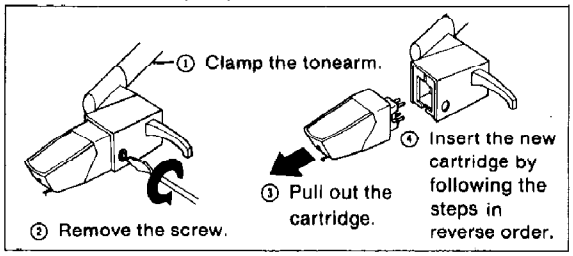
If noise is heard from new discs, the stylus is probably worn. Replace it with a new one.

- Stylus life ..... approx. 1,000 hours
- New stylus EPS-30CS



Replacement of the cartridge

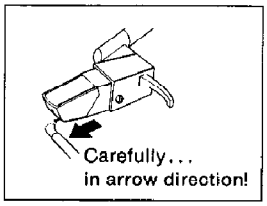
The plug-in type of cartridge is already designed to match this unit in every respect: weight, correct stylus pressure, stylus tip position, center of gravity, etc. This means that there's no longer any need for troublesome connection of lead wires or adjustment of the stylus pressure.


① Clamp the tonearm.
② Remove the screw.
③ Pull out the cartridge.
④ Insert the new cartridge by following the steps in reverse order.

Maintenance

To clean dust from the stylus

Use a soft brush or similar material to gently remove the dust.
Thoroughly clean your discs occasionally with a high-quality disc cleaner.

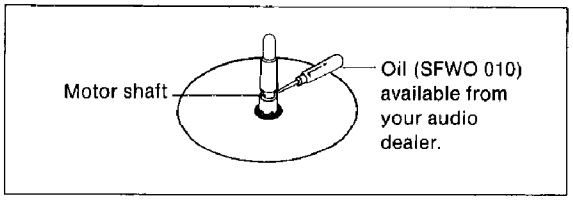


Maintenance of external surfaces

To clean this unit, use a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth, dipped into a soap-and-water solution or a weak detergent solution.
Wring the cloth well before wiping the unit.
Wipe once again with a soft, dry cloth.
Never use alcohol, paint thinner, benzine, nor a chemically treated cloth to clean this unit.
Such chemicals may damage the finish of your unit.

Lubricating the motor shaft

Apply 2 or 3 drops of oil after every 2,000 hours of operation. (Handle the platter carefully during assembly.)



Troubleshooting Guide

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refer to the directory of Authorized service centers (enclosed with this unit) to locate a convenient service center, or consult your Technics dealer for instructions.

Problem	Probable cause(s)	Suggested remedy
During disc play		
A loud and unusual sound ("howling") is heard when the volume level is increased.	The location of the turntable and speaker systems is unstable.	• If the equipment is unstable because it is located upon a soft surface, such as a carpet, place a solid material (such as concrete blocks, bricks, a hard board, etc.) beneath the speaker systems. • Try moving the turntable farther away from the speaker systems. • Try placing a cushioning material (such as felt or commercially available audio insulators) beneath the turntable.
Unusual scratching noises are heard.	Disc is old or scratched.	• Turn the treble tone control of the amplifier to reduce the treble sound.
	Dust in disc grooves.	• Use a disc cleaner to remove the dust from the disc grooves.
	Stylus needle is worn.	• If the noise is heard even when a new disc is played, probably the stylus is worn. Replace it with a new stylus.
	Dust is attached to stylus tip.	• Remove the dust by using a soft brush.

Technical Specifications

■ TURNTABLE SECTION

Type Automatic turntable
Drive method Direct drive
Motor Brushless-DC motor
Drive control method FG method phase locked control
Turntable platter Aluminum dia-cast
Diameter 312 mm (12-9/32")
Turntable speeds 33-1/3 rpm and 45 rpm
Wow and flutter 0.012% WRMS (*)
0.025% WRMS (JIS C5521)
±0.035% Weighted zero to peak
(IEC 98A weighted)

* This rating refers to turntable assembly alone, excluding effects of record, cartridge or tonearm, but including platter. Measured by obtaining signal from built-in frequency generator of motor assembly.

Rumble 78 dB DIN-B (IEC 98A weighted)
−56 dB DIN-A (IEC 98A unweighted)

■ TONEARM SECTION

Type Static-balanced straight tonearm
Plug-in-connector cartridge system
Effective length 230 mm (9-1/16")
Overhang 15 mm (19/32")
Tracking error angle Within 2°32' at outer groove of 30 cm (12") record
Within 0°32' at inner groove of 30 cm (12") record
Effective mass 13.5 g (including cartridge)
Applicable cartridge weight 6 g

■ CARTRIDGE SECTION

Type Moving magnet stereo cartridge
Frequency response 10 Hz~35 kHz
Output voltage 2.5 mV at 1 kHz,
5 cm/s. zero to peak lateral velocity
(7 mV at 1 kHz, 10 cm/s. zero to peak,
45° velocity [DIN 45 500])
Channel separation 22 dB at 1 kHz
Channel balance Within 2 dB at 1 kHz
Recommended load impedance 47 kΩ~100 kΩ
Compliance (dynamic)
12×10^{-6} cm/dyne at 100 Hz
Stylus pressure range 1.25±0.25 g
Weight 6 g (cartridge only)
Replacement stylus EPS-30CS

■ GENERAL

Power supply AC 240 V, 50 Hz
Power consumption 5 W
Dimensions (W×H×D) 430×100×375 mm
(16-15/16"×3-15/16"×14-3/4")
when dust cover is open:
430×370×410 mm
(16-15/16"×14-9/16"×16-1/8")
Weight 4.5 kg (9.9 lb.)

Note:
Specifications are subject to change without notice. Weight and dimensions are approximate.

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

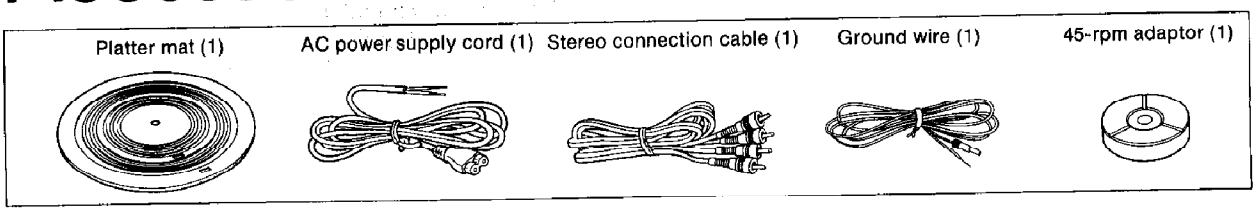
(EK)

SQX53812
E0586N0

Printed in Japan

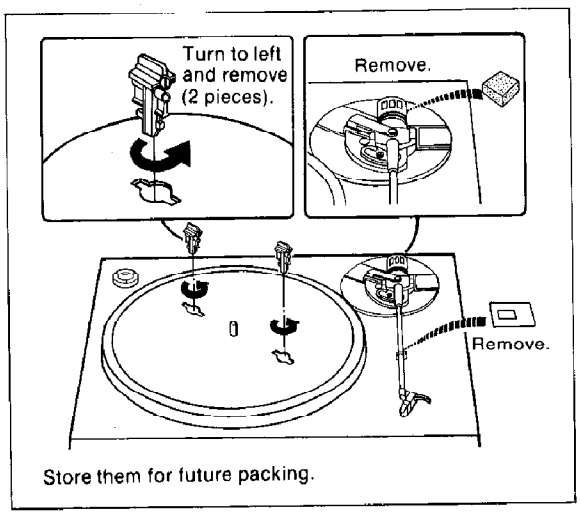
Accessories

Note: Configuration of AC power supply cord differs according to area.

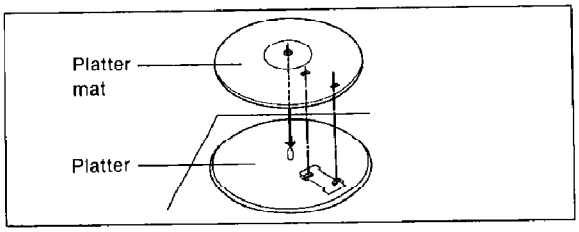


Turntable Assembly

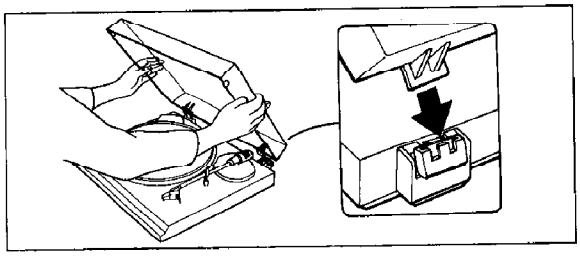
1. Remove the packing spacers.



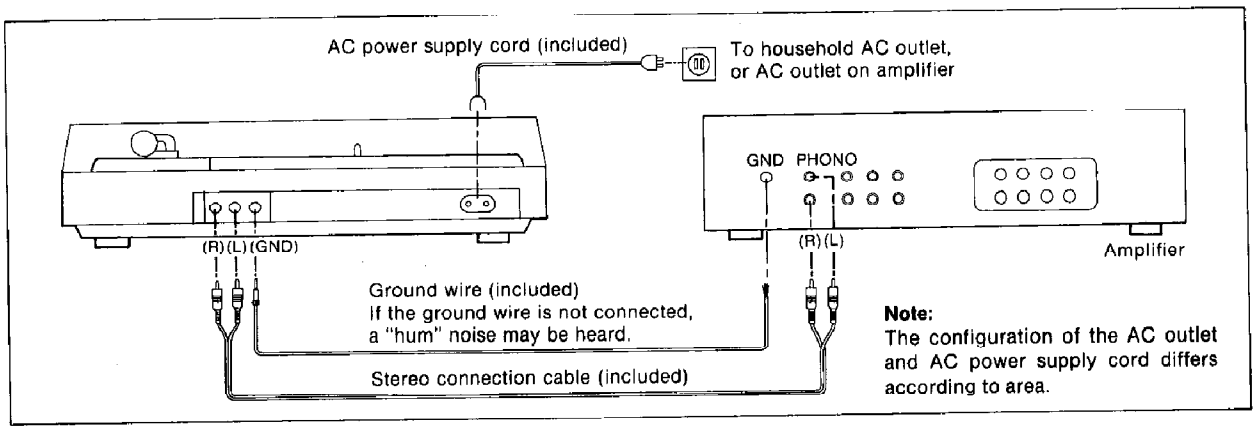
2. Place the platter mat on the platter.



3. Install the dust cover.



Connections


AC power supply cord (included)
To household AC outlet, or AC outlet on amplifier
GND
PHONO
(R)(L)(GND)
(R)(L)
Amplifier
Ground wire (included)
If the ground wire is not connected, a "hum" noise may be heard.
Stereo connection cable (included)
Note:
The configuration of the AC outlet and AC power supply cord differs according to area.

Dear Stereo Fan

We want to thank you for selecting this product and to welcome you to the growing family of satisfied Technics product owners around the world.
We feel certain you will get maximum enjoyment from this new addition to your home.
Please read these operating instructions carefully, and be sure to keep them handy for convenient reference.

For United Kingdom

("EK" area code model only)

The "EK" indication is shown on the name plate.

Important

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

BLUE:	NEUTRAL
BROWN:	LIVE

As the colours of the wires in the mains lead of this unit may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

This apparatus was produced to BS 800: 1983.

Suggestions for Safety

■ Use a standard electrical AC wall outlet

1. **Use from an AC power source of high voltage, such as for air conditioners, is very dangerous.**
   Be extremely careful not to make a connection to the electrical outlet for a large air conditioner or central-heating unit which uses high voltage, because there is the possibility of fire.
2. **A DC power source cannot be used.**
   Be sure to check the power source carefully, especially on a ship or other place where DC is used.

■ Connection and removal of the power cord plug

1. **Wet hands are dangerous.**
   A dangerous electric shock may result if the plug is touched by wet hands.
2. **Don't pull the power cord.**
   Always grasp the plug; never pull the cord itself.

■ Never attempt to repair or reconstruct this unit

A serious electric shock might occur if this unit is repaired, disassembled or reconstructed by unauthorized persons, or if the internal parts are accidently touched.

■ For families with children

Never permit children to put anything, especially metal, inside this unit. A serious electric shock or malfunction could occur if articles such as coins, needles, screwdrivers, etc. are inserted through the ventilation holes, etc. of this unit.

■ If water is spilled on the unit

Be extremely careful if water is spilled on the unit, because a fire or serious electric shock might occur. Immediately disconnect the power cord plug, and consult with your dealer.

■ Place the unit where it will be well ventilated, and away from direct sunlight

Place this unit at least 10 cm (4") away from wall surfaces, etc., and away from direct sunlight.

■ Keep the unit away from heaters, etc.

Heat can damage the external surfaces as well as internal circuits and components.

■ Avoid spray-type insecticides

Insecticides might cause cracks or "cloudiness" in the cabinet and plastic parts of this unit. The gas used in such sprays might, moreover, be ignited suddenly.

■ Never use alcohol or paint thinner

These and similar chemicals should never be used, because they may damage the finish.

■ If trouble occurs

If, during operation, the sound is interrupted or indicators no longer illuminate, or if abnormal odor or smoke is detected, immediately disconnect the power cord plug, and contact your dealer or an Authorized Service Center.